

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/577,893  
Source: IFWP  
Date Processed by STIC: 05/11/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

By Shuc Lee Date 1-24-07

BEST AVAILABLE COPY



IFWP

## RAW SEQUENCE LISTING

DATE: 05/11/2006

PATENT APPLICATION: US/10/577,893

TIME: 11:07:16

Input Set : A:\21564Y SEQ 05 01 06.TXT

Output Set: N:\CRF4\05112006\J577893.raw

4 <110> APPLICANT: Merck & Co., Inc.  
 5 Istituto di Ricerche di Biologia Molecolare P. Angeletti S.p.A.  
 7 <120> TITLE OF INVENTION: HCV REPLICONS CONTAINING NS5B FROM  
 8 GENOTYPE 2B  
 10 <130> FILE REFERENCE: 21564Y PCT  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/577,893  
 C--> 12 <141> CURRENT FILING DATE: 2006-05-01  
 12 <150> PRIOR APPLICATION NUMBER: 60/517,605  
 13 <151> PRIOR FILING DATE: 2003-11-05  
 15 <160> NUMBER OF SEQ ID NOS: 28  
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 591  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: modified NS5B  
 W--> 27 <221> NAME/KEY: VARIANT  
 28 <222> LOCATION: (5)...(5)  
 29 <223> OTHER INFORMATION: Xaa = threonine or serine  
 W--> 31 <221> VARIANT  
 32 <222> LOCATION: (24)...(24)  
 33 <223> OTHER INFORMATION: Xaa = asparagine or serine  
 W--> 35 <221> VARIANT  
 36 <222> LOCATION: (31)...(31)  
 37 <223> OTHER INFORMATION: Xaa = methionine or isoleucine  
 W--> 39 <221> VARIANT  
 40 <222> LOCATION: (376)...(376) *→ at this location*  
 41 <223> OTHER INFORMATION: Xaa = isoleucine or leucine *→ at this location*  
 W--> 43 <400> 1  
 W--> 44 Ser Met Ser Tyr Xaa Trp Thr Gly Ala Leu Ile Thr Pro Cys Gly Pro  
 45 1 5 10 15 *392*  
 W--> 46 Glu Glu Glu Lys Leu Pro Ile Xaa Pro Leu Ser Asn Ser Leu Xaa Arg  
 47 20 25 30  
 48 Phe His Asn Lys Val Tyr Ser Thr Ser Arg Ser Ala Ser Leu Arg  
 49 35 40 45  
 50 Ala Lys Lys Val Thr Phe Asp Arg Val Gln Val Leu Asp Ala His Tyr  
 51 50 55 60  
 52 Asp Ser Val Leu Gln Asp Val Lys Arg Ala Ala Ser Lys Val Ser Ala  
 53 65 70 75 80  
 54 Arg Leu Leu Thr Val Glu Glu Ala Cys Ala Leu Thr Pro Pro His Ser  
 55 85 90 95  
 56 Ala Lys Ser Arg Tyr Gly Phe Gly Ala Lys Glu Val Arg Ser Leu Ser

Does Not Comply  
Corrected Diskette Needed

(pg 1, 26, 7)

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Input Set : A:\21564Y SEQ 05 01 06.TXT

Output Set: N:\CRF4\05112006\J577893.raw

```

57      100      105      110
58 Arg Arg Ala Val Asn His Ile Arg Ser Val Trp Glu Asp Leu Leu Glu
59      115      120      125
60 Asp Gln His Thr Pro Ile Asp Thr Thr Ile Met Ala Lys Asn Glu Val
61      130      135      140
62 Phe Cys Ile Asp Pro Thr Lys Gly Gly Lys Lys Pro Ala Arg Leu Ile
63 145      150      155      160
64 Val Tyr Pro Asp Leu Gly Val Arg Val Cys Glu Lys Met Ala Leu Tyr
65      165      170      175
66 Asp Ile Ala Gln Lys Leu Pro Lys Ala Ile Met Gly Pro Ser Tyr Gly
67      180      185      190
68 Phe Gln Tyr Ser Pro Ala Glu Arg Val Asp Phe Leu Leu Lys Ala Trp
69      195      200      205
70 Gly Ser Lys Lys Asp Pro Met Gly Phe Ser Tyr Asp Thr Arg Cys Phe
71      210      215      220
72 Asp Ser Thr Val Thr Glu Arg Asp Ile Arg Thr Glu Glu Ser Ile Tyr
73 225      230      235      240
74 Gln Ala Cys Ser Leu Pro Gln Glu Ala Arg Thr Val Ile His Ser Leu
75      245      250      255
76 Thr Glu Arg Leu Tyr Val Gly Gly Pro Met Thr Asn Ser Lys Gly Gln
77      260      265      270
78 Ser Cys Gly Tyr Arg Arg Cys Arg Ala Ser Gly Val Phe Thr Thr Ser
79      275      280      285
80 Met Gly Asn Thr Met Thr Cys Tyr Ile Lys Ala Leu Ala Ala Cys Lys
81      290      295      300
82 Ala Ala Gly Ile Val Asp Pro Val Met Leu Val Cys Gly Asp Asp Leu
83 305      310      315      320
84 Val Val Ile Ser Glu Ser Gln Gly Asn Glu Asp Glu Arg Asn Leu
85      325      330      335
86 Arg Ala Phe Thr Glu Ala Met Thr Arg Tyr Ser Ala Pro Pro Gly Asp
87      340      345      350
88 Leu Pro Arg Pro Glu Tyr Asp Leu Glu Leu Ile Thr Ser Cys Ser Ser
89      355      360      365
90 Asn Val Ser Val Ala Leu Asp Ser Arg Gly Arg Arg Tyr Phe Leu
91      370      375      380
W--> 92 Thr Arg Asp Pro Thr Thr Pro Xaa Thr Arg Ala Ala Trp Glu Thr Val
93 385      390      395      400
94 Arg His Ser Pro Val Asn Ser Trp Leu Gly Asn Ile Ile Gln Tyr Ala
95      405      410      415
96 Pro Thr Ile Trp Val Arg Met Val Ile Met Thr His Phe Phe Ser Ile
97      420      425      430
98 Leu Leu Ala Gln Asp Thr Leu Asn Gln Asn Leu Asn Phe Glu Met Tyr
99      435      440      445
100 Gly Ala Val Tyr Ser Val Asn Pro Leu Asp Leu Pro Ala Ile Ile Glu
101      450      455      460
102 Arg Leu His Gly Leu Glu Ala Phe Ser Leu His Thr Tyr Ser Pro His
103 465      470      475      480
104 Glu Leu Ser Arg Val Ala Ala Thr Leu Arg Lys Leu Gly Ala Pro Pro
105      485      490      495

```

? x99

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Input Set : A:\21564Y SEQ 05 01 06.TXT

Output Set: N:\CRF4\05112006\J577893.raw

```

106 Leu Arg Ala Trp Lys Ser Arg Ala Arg Ala Val Arg Ala Ser Leu Ile
107          500          505          510
108 Ala Gln Gly Ala Arg Ala Ala Ile Cys Gly Arg Tyr Leu Phe Asn Trp
109          515          520          525
110 Ala Val Lys Thr Lys Leu Lys Leu Thr Pro Leu Pro Glu Ala Ser Arg
111          530          535          540
112 Leu Asp Leu Ser Gly Trp Phe Thr Val Gly Ala Gly Gly Gly Asp Ile
113 545          550          555          560
114 Tyr His Ser Val Ser His Ala Arg Pro Arg Leu Leu Leu Leu Cys Leu
115          565          570          575
116 Leu Leu Leu Ser Val Gly Val Gly Ile Phe Leu Leu Pro Asp Arg
117          580          585          590

```

120 &lt;210&gt; SEQ ID NO: 2

121 &lt;211&gt; LENGTH: 1776

122 &lt;212&gt; TYPE: DNA

123 &lt;213&gt; ORGANISM: Artificial Sequence

125 &lt;220&gt; FEATURE:

126 &lt;223&gt; OTHER INFORMATION: modified NS5B

W--&gt; 128 &lt;221&gt; NAME/KEY: variation

129 &lt;222&gt; LOCATION: (3)...(3)

130 &lt;223&gt; OTHER INFORMATION: n = A or T

W--&gt; 132 &lt;221&gt; variation

133 &lt;222&gt; LOCATION: (9)...(9)

134 &lt;223&gt; OTHER INFORMATION: n = C or A

W--&gt; 136 &lt;221&gt; variation

137 &lt;222&gt; LOCATION: (13)...(13)

138 &lt;223&gt; OTHER INFORMATION: n = A or T

W--&gt; 140 &lt;221&gt; variation

141 &lt;222&gt; LOCATION: (15)...(15)

142 &lt;223&gt; OTHER INFORMATION: n = A or C

W--&gt; 144 &lt;221&gt; variation

145 &lt;222&gt; LOCATION: (21)...(21)

146 &lt;223&gt; OTHER INFORMATION: n = A or G

W--&gt; 148 &lt;221&gt; variation

149 &lt;222&gt; LOCATION: (24)...(24)

150 &lt;223&gt; OTHER INFORMATION: n = C or G

W--&gt; 152 &lt;221&gt; variation

153 &lt;222&gt; LOCATION: (28)...(28)

154 &lt;223&gt; OTHER INFORMATION: n = T or C

W--&gt; 156 &lt;221&gt; modified\_base

157 &lt;222&gt; LOCATION: (30)...(30)

158 &lt;223&gt; OTHER INFORMATION: n = G or C

W--&gt; 160 &lt;221&gt; variation

161 &lt;222&gt; LOCATION: (33)...(33)

162 &lt;223&gt; OTHER INFORMATION: n = C or A

W--&gt; 164 &lt;221&gt; variation

165 &lt;222&gt; LOCATION: (71)...(71)

166 &lt;223&gt; OTHER INFORMATION: n = A or G

W--&gt; 168 &lt;221&gt; variation

## RAW SEQUENCE LISTING

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TIME: 11:07:16

Input Set : A:\21564Y SEQ 05 01 06.TXT

Output Set: N:\CRF4\05112006\J577893.raw

```

169 <222> LOCATION: (83)...(83)
170 <223> OTHER INFORMATION: n = G or T
W--> 172 <221> variation
173 <222> LOCATION: (1174)...(1174)
174 <223> OTHER INFORMATION: n = A or C
W--> 176 <400> 2
W--> 177 tcnatgtcnt acnctgtggac ngngnccntn atnacacccat gtgggcccga agaggagaag 60
W--> 178 ttaccgatca nccctctgag taattcgctc atncgggtcc ataataagggt gtactccaca 120
179 acctcgagga gtgcctctct gagggcaaaag aagggtgactt ttgacaggggt gcaggtgctg 180
180 gacgcacact atgactcagt cttgcaggac gttaagcggg ccgcctctaa ggtagtgctg 240
181 aggtcctca cggtagagga agcctgcgcg ctgaccccgcc cccactccgc caaatcgca 300
182 tacggatttg gggcaaaaga ggtgcgcagc ttatctagga gggccgttaa ccacatccgg 360
183 tccgtgtggg aggacctcct ggaagaccaa cataccocaa ttgacacaac tatcatggct 420
184 aaaaatgagg tgttctgcat tgatccaact aaagggtggga aaaagccagc tcgcctcatc 480
185 gtataccccc accttgggggt cagggtgtgc gaaaagatgg ccctctatga catcgacaaa 540
186 aagcttccca aagcgataat ggggccatcc tatgggttcc aatactctcc cgcagaacgg 600
187 gtcgatttcc tcctcaaagc ttggggaagt aagaaggacc caatgggggt ctcgtatgac 660
188 acccgctgct ttgactcaac cgtcacggag agggacataa gaacagaaga atccatata 720
189 caggcttggt ctctgcctca agaagccaga actgtcatac actcgctcac tgagagactt 780
190 tacgtaggag ggcccatgac aaacagcaaa gggcaatcct gcggctacag gcgttgccgc 840
191 gcaagcggtg ttttcaccac cagcatgggg aataccatga catgttacat caaagccctt 900
192 gcagcgtgta aggtgcagg gatcgtggac cctgttatgt tgggtgtgtg agacgacctg 960
193 gtcgtcatct cagagagcca aggtaacgag gaggacgagc gaaacctgag agctttcac 1020
194 gaggctatga ccaggtattc cgccctccc ggtgaccttc ccagaccgga atatgacttg 1080
195 gagcttataa catcctgctc ctcaaacgta tcggtagcgc tggactctcg gggtcgccgc 1140
W--> 196 cggctacttc taaccagaga ccctaccact ccantcacc gagctgcttg ggaaacagta 1200
197 agacactccc ctgtcaattc ttggctgggc aacatcatcc agtacgcccc cacaatctgg 1260
198 gtccgtagtg tcataatgac tcactttctc tccatactat tggcccagga cactctgaac 1320
199 caaaatctca attttgagat gtacggggca gtatactcg tcaatccatt agacctaccg 1380
200 gccataattg aaaggctaca tgggcttgaa gccttttcac tgacacata ctctccccac 1440
201 gaactctcac ggggtggcagc aactctcaga aaacttgag cgctccctc tagagcgtgg 1500
202 aagagtcggg cgcggtgccg gagagcttca ctcatcgccc aaggagcgag ggcggccatt 1560
203 tgtggccgct acctcttcaa ctgggcggtg aaaacaaagc tcaaactcac tccattgcc 1620
204 gaggcgagcc gcctggattt atccgggtgg ttcaccgtgg gcgcggcggg gggcgacatt 1680
205 tatcacagcg tgtgcgatgc ccgaccccgcc ctattactcc tttgctact cctacttagc 1740
206 gtaggagtag gcactttttt actccccgat cgatga 1776
208 <210> SEQ ID NO: 3
209 <211> LENGTH: 1394
210 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: modified NS3-5A
W--> 216 <221> NAME/KEY: VARIANT
217 <222> LOCATION: (1215)...(1215)
218 <223> OTHER INFORMATION: Xaa = asparagine or serine
W--> 220 <221> VARIANT
221 <222> LOCATION: (904)...(904)
222 <223> OTHER INFORMATION: Xaa = valine or alanine
W--> 224 <400> 3

```

## RAW SEQUENCE LISTING

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Input Set : A:\21564Y SEQ 05 01 06.TXT

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```

225 Met Ala Pro Ile Thr Ala Tyr Ser Gln Gln Thr Arg Gly Leu Leu Gly
226 1 5 10 15
227 Cys Ile Ile Thr Ser Leu Thr Gly Arg Asp Lys Asn Gln Val Glu Gly
228 20 25 30
229 Glu Val Gln Val Val Ser Thr Ala Thr Gln Ser Phe Leu Ala Thr Cys
230 35 40 45
231 Val Asn Gly Val Cys Trp Thr Val Tyr His Gly Ala Gly Ser Lys Thr
232 50 55 60
233 Leu Ala Gly Pro Lys Gly Pro Ile Thr Gln Met Tyr Thr Asn Val Asp
234 65 70 75 80
235 Gln Asp Leu Val Gly Trp Gln Ala Pro Pro Gly Ala Arg Ser Leu Thr
236 85 90 95
237 Pro Cys Thr Cys Gly Ser Ser Asp Leu Tyr Leu Val Thr Arg His Ala
238 100 105 110
239 Asp Val Ile Pro Val Arg Arg Arg Gly Asp Ser Arg Gly Ser Leu Leu
240 115 120 125
241 Ser Pro Arg Pro Val Ser Tyr Leu Lys Gly Ser Ser Gly Gly Pro Leu
242 130 135 140
243 Leu Cys Pro Ser Gly His Ala Val Gly Ile Phe Arg Ala Ala Val Cys
244 145 150 155 160
245 Thr Arg Gly Val Ala Lys Ala Val Asp Phe Val Pro Val Glu Ser Met
246 165 170 175
247 Glu Thr Thr Met Arg Ser Pro Val Phe Thr Asp Asn Ser Ser Pro Pro
248 180 185 190
249 Ala Val Pro Gln Thr Phe Gln Val Ala His Leu His Ala Pro Thr Gly
250 195 200 205
251 Ser Gly Lys Ser Thr Lys Val Pro Ala Ala Tyr Ala Ala Gln Gly Tyr
252 210 215 220
253 Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu Gly Phe Gly
254 225 230 235 240
255 Ala Tyr Met Ser Lys Ala His Gly Ile Asp Pro Asn Ile Arg Thr Gly
256 245 250 255
257 Val Arg Thr Ile Thr Thr Gly Ala Pro Val Thr Tyr Ser Thr Tyr Gly
258 260 265 270
259 Lys Phe Leu Ala Asp Gly Gly Cys Ser Gly Gly Ala Tyr Asp Ile Ile
260 275 280 285
261 Ile Cys Asp Glu Cys His Ser Thr Asp Ser Thr Thr Ile Leu Gly Ile
262 290 295 300
263 Gly Thr Val Leu Asp Gln Ala Glu Thr Ala Gly Ala Arg Leu Val Val
264 305 310 315 320
265 Leu Ala Thr Ala Thr Pro Pro Gly Ser Val Thr Val Pro His Pro Asn
266 325 330 335
267 Ile Glu Glu Val Ala Leu Ser Asn Thr Gly Glu Ile Pro Phe Tyr Gly
268 340 345 350
269 Lys Ala Ile Pro Ile Glu Ala Ile Arg Gly Gly Arg His Leu Ile Phe
270 355 360 365
271 Cys His Ser Lys Lys Lys Cys Asp Glu Leu Ala Ala Lys Leu Ser Gly
272 370 375 380
273 Leu Gly Ile Asn Ala Val Ala Tyr Tyr Arg Gly Leu Asp Val Ser Val

```

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6

<210> 24  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
<400> 24  
gtctaccgtg agcgaggaa

If <213> Responses are  
Artificial or Unknown.  
Pls Explain the Source  
of Genetic Material.  
See Item 11 on Error  
Summary Sheet.

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7

<210> 27

<211> 783

<212> DNA

<213> modified NS4B

<400> 27

22137 Responses can only  
be Artificial, Unknown  
or Genus Species. See  
Item 10 on Error Summary  
Sheet.



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/577,893

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Input Set : A:\21564Y SEQ 05 01 06.TXT  
Output Set: N:\CRF4\05112006\J577893.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5,24,31,392  
Seq#:2; N Pos. 3,9,13,15,21,24,28,30,33,71,93,1174  
Seq#:3; Xaa Pos. 904,1215  
Seq#:4; N Pos. 3644

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:1,2,3,4,24

## VERIFICATION SUMMARY

DATE: 05/11/2006

PATENT APPLICATION: US/10/577,893

TIME: 11:07:17

Input Set : A:\21564Y SEQ 05 01 06.TXT

Output Set: N:\CRF4\05112006\J577893.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:27 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:31 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:43 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16  
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:384  
L:128 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:132 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:136 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:140 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:148 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:164 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:168 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:172 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:176 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:1140  
L:216 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:220 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:224 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:896  
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1200  
L:411 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:415 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:419 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:3600  
L:703 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24  
L:705 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:24, <213>  
ORGANISM:Artificial Sequence  
L:705 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:24, <213>  
ORGANISM:Artificial Sequence  
L:705 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:24, Line#:705